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CLAIMS

 A process for producing a protein of interest, characterized in that it comprises:

culturing a bacterial strain which expresses said protein of interest, and which can be obtained from a Gram-positive bacterium, the size of the genome of which bacterium is at most equal to 3.2 Mb, by mutation which inactivates the HtrA surface protease of said bacterium;

- producing said protein of interest exported by said strain.

- by said Strain.

 2. The process as claimed in claim 1, characterized in that the starting Gram-positive characterium is chosen from the Streptococcaceae, bacterium is Bacillaceae of the Staphylococcus and
 - Listeria genera, and Enterococcacea of the Enterococcus genus.
- 3. The process as claimed in claim 2, characterized in that the starting Gram-positive bacterium is chosen from the group consisting of Lactococcus spp., Lactobacillus spp., and Streptococcus thermophilus.
 - 4. The process as claimed in any one of claims 1 to 3, characterized in that the bacterial strain used also lacks PrtP protease activity.
 - 5. A bacterial strain which can be obtained from a Gram-positive bacterium, the size of the genome of which bacterium is at most equal to 3.2 Mb, as defined in any one of claims 1 to 3, by mutation which in any one of claims 1 to 3, by mutation which inactivates the HtrA sunface protease of said bacterium, and which also comprises at least one cassette for expressing a gene of interest, with the exception of a Lactobacillus helveticus strain comprising a single expression cassette consisting of the sequence encoding the gusA reporter gene inserted into the htrA gene of said strain, under the transcriptional control of the promoter of said gene.

- 6. The bacterial strain as claimed in claim 5, characterized in that it also lacks PrtP protease activity.
- 7. The use of a bacterial strain as defined in any 5 one of claims 1 to 4, for preparing a fermented product.
 - 8. The use of a bacterial strain as defined in any one of claims 1 to for preparing a dietetic food.
- 9. The use of a pacterial strain as defined in any 10 one of claims 1 to 4, for preparing a medicinal product.
 - 10. The use as claimed in claim 9, characterized in that said medicinal product is a vaccine.

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